

## **Appendix E**

(Included on CD only)

Water Quality Parameters

**Table E-2**  
**J-2 Range Eastern Water Quality Parameters**

Location	Sample Date	pH (SU)	Temperature (° C)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
J2EW0001	3/21/2007	6.43	10.06	10.22	72.9	40	0
J2EW0001	10/3/2007	5.44	12.47	10.56	258.3	61	2.65
J2EW0001	3/5/2008	6	10	12	198	58	2
J2EW0001	9/10/2008	6.18	10.15	10.96	122.3	104	4.6
J2EW0001	2/10/2009	7.17	9.53	11.18	113.2	41	13.1
J2EW0001	8/3/2009	6.45	10.35	10.39	135	62	1.4
J2EW0002	3/21/2007	6.54	9.93	10.12	90.7	39	12.5
J2EW0002	10/3/2007	5.84	13.19	10.67	225.4	59	4.21
J2EW0002	3/5/2008	6	10	12	216	56	4
J2EW0002	9/10/2008	6.75	10.21	11.26	101.7	100	5.1
J2EW0002	2/10/2009	7.05	9.7	11.65	97.7	51	16.2
J2EW0002	8/3/2009	6.21	10.4	11.19	140.4	60	0.3
J2EW0003	3/21/2007	7.22	9.78	11.84	134.4	38	0
J2EW0003	10/3/2007	5.93	11.64	10.94	228	61	2.18
J2EW0003	3/5/2008	6	10	12	238	58	5
J2EW0003	9/10/2008	7.28	10.21	11.03	52.5	109	10.6
J2EW0003	2/10/2009	6.78	9.55	12.48	86.3	53	23.8
J2EW0003	8/3/2009	6.17	10.54	10.54	129.3	62	0.9
J2MW-01M1	9/10/2009	6.73	11.04	2.95	16.5	67	20.2
J2MW-01M2	9/10/2009	6.9	10.59	11.52	129	55	1.4
J2MW-04M1	9/10/2009	6.51	10.13	10.89	167.1	71	2.8
J2MW-04M2	2/26/2009	6.28	8.99	9.94	161.9	86	5
J2MW-04M2	9/10/2009	6.23	10.11	11.39	195.2	54	2.8
J2MW-05	2/6/2008	7.21	9.75	12.75	100.5	74	0
J2MW-05	2/7/2008	7.2	8.57	13.11	83	76	0
J2MW-05	2/7/2008	7.36	9.06	12.27	130.1	78	1.8
J2MW-05	2/7/2008	7.15	9.01	12.77	125.2	68	0
J2MW-05	2/8/2008	6.61	9.11	12.61	139.5	61	4.4
J2MW-05	2/8/2008	7.69	9.73	13.02	121.5	66	0.8
J2MW-05	2/8/2008	6.53	9.31	12.97	95	71	0.4
J2MW-05	2/11/2008	7.08	5.33	7.87	33	101	1460.9
J2MW-05	2/12/2008	7.64	9.76	8.35	86.1	61	141.2
J2MW-05	2/12/2008	7.38	9.28	8.89	106	55	43.7
J2MW-05	2/12/2008	7.26	9.7	9.34	104.4	51	300.4
J2MW-05	2/13/2008	7.27	10.95	11.86	97.4	56	149.2
J2MW-05	2/13/2008	7.42	10.68	11.5	54.7	53	70.3
J2MW-05M1	9/17/2009	6.89	10.44	4.97	96.7	58	95.2
J2MW-05M2	9/15/2009	6.12	10.68	12.48	101.1	60	0.4
MW-116S	4/11/2007	5.94	10.31	11.89	230.4	53	0.7
MW-116S	5/1/2008	5.82	10.24	12.24	167.8	63	7
MW-116S	9/15/2009	5.68	10.95	11.74	150.4	53	2.4
MW-170M1	9/9/2009	6	10.65	6.68	-19.6	66	5.8
MW-170M2	4/10/2007	6.09	9.08	9.36	3.5	56	6.4
MW-170M2	5/2/2008	5.97	9.43	8.28	27.5	60	24.6

**Table E-2**  
**J-2 Range Eastern Water Quality Parameters**

Location	Sample Date	pH (SU)	Temperature (° C)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-170M2	5/6/2009	6.17	9.39	12.19	197	63	4.8
MW-170M2	9/9/2009	5.96	11.95	10.24	54.1	59	0.2
MW-170M3	4/10/2007	0.78	9.11	12.75	8	59	78.6
MW-170M3	5/2/2008	5.75	9.34	10.8	179.7	57	63.4
MW-170M3	5/6/2009	5.8	9.61	11.88	258.2	57	4.7
MW-215M1	4/10/2007	6.81	9.75	8.66	172.1	65	2.7
MW-215M1	4/29/2008	6.83	10.69	8.57	122.8	65	8
MW-215M1	9/11/2009	6.64	11.48	8.69	137.2	61	2.4
MW-215M2	4/10/2007	6.49	9.61	9.54	197.1	83	4.1
MW-215M2	4/29/2008	6.58	10.55	9.49	11.97	82	7.4
MW-215M2	9/11/2009	6.43	11.63	9.89	147.2	77	1.2
MW-228M2	10/11/2006	5.67	11.3	11.24	190.3	39	0.9
MW-228M2	4/11/2007	5.69	9.82	12.05	241.5	46	0.4
MW-228M2	5/1/2008	5.84	9.92	12.12	136.5	56	4.8
MW-228M2	9/15/2009	5.66	11.13	12.4	193.2	43	1.5
MW-228S	2/26/2009	5.66	9.73	8.08	200.2	74	3.8
MW-228S	9/15/2009	5.68	10.5	5.98	182.1	46	0.6
MW-254M2	4/24/2007	6.59	9.75	11.44	219.8	82	3.5
MW-307M3	9/28/2006	5.38	12.29	11.08	305.6	45	0.66
MW-307M3	4/11/2007	5.5	9.79	12.66	271.9	57	0.9
MW-307M3	9/26/2007	5.61	11.17	11.93	215	55	7.5
MW-307M3	4/14/2008	5.87	9.73	10.84	223	48	6.4
MW-307M3	11/4/2008	5.47	10.59	11.93	242.6	52	5.8
MW-307M3	2/25/2009	5.59	9.39	11.04	190.8	63	6
MW-307M3	9/22/2009	5.13	11.13	12.44	250.6	53	3.6
MW-310M1	9/28/2006	6.2	12.43	10.82	167.3	54	0
MW-310M1	4/10/2007	6.29	10.18	10.51	210.7	79	1.1
MW-310M1	9/25/2007	6.28	12.72	10.93	210.4	79	7.6
MW-310M1	4/11/2008	6.3	10.27	11.26	90.6	79	5.5
MW-310M1	2/24/2009	6.31	9.86	10.72	134.5	77	7.8
MW-310M1	9/14/2009	6.18	11.87	10.21	166.3	68	2.5
MW-319M1	10/5/2006	6.61	10.62	12.63	147.6	51	0.93
MW-319M1	4/11/2007	6.33	9.66	11.13	201.5	80	4.5
MW-319M1	9/25/2007	6.66	11.71	10.86	225.6	77	7.7
MW-319M1	4/11/2008	6.67	9.71	11.46	82.6	77	5.6
MW-319M1	11/3/2008	6.5	10.25	11.08	184.1	70	9.5
MW-319M1	2/24/2009	6.69	9.09	11.37	133.4	75	6.9
MW-319M1	9/14/2009	6.58	11.43	10.7	158.8	66	1.8
MW-319M2	4/11/2007	6.05	9.6	11.64	205.1	72	4.1
MW-319M2	4/11/2008	6.16	9.65	11.98	99.2	67	5.5
MW-319M2	9/14/2009	6.04	10.56	11.33	175	56	1.9
MW-321M1	4/12/2007	6.09	9.01	11.01	270.1	65	1.8
MW-321M1	5/2/2008	6.23	9.55	11.69	197.2	60	4.9
MW-321M1	9/17/2009	5.93	10.24	10.66	98.7	56	1.6

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**J-2 Range Eastern Water Quality Parameters**

Location	Sample Date	pH (SU)	Temperature (° C)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-321M2	10/11/2006	5.78	10.86	13.44	205.4	44	0.87
MW-321M2	4/12/2007	5.83	9.2	10.71	277	67	3
MW-321M2	5/2/2008	5.97	9.54	11.56	217.7	59	6.5
MW-321M2	9/17/2009	5.77	10.28	11.78	133.4	58	2.7
MW-324M1	4/9/2007	6.68	9.51	9.71	179.9	57	9.4
MW-324M1	4/28/2008	6.85	9.68	9.91	85.6	61	8.3
MW-324M1	2/25/2009	6.64	9.22	7.42	141.3	89	2.1
MW-324M1	9/10/2009	6.59	10.78	7.42	154.6	66	3.1
MW-324M2	4/9/2007	6.49	9.8	11.42	194.5	77	5.7
MW-324M2	4/28/2008	6.53	9.65	10.86	101.2	78	6.7
MW-324M2	2/25/2009	6.43	9.37	10.83	154.7	92	3.9
MW-324M2	9/10/2009	6.4	10.81	11	177	65	3.4
MW-334M1	4/6/2007	6.35	9.17	10.94	211.6	69	5.6
MW-334M1	4/21/2008	6.57	9.5	11.26	145	101	7.6
MW-334M1	9/3/2009	6.65	10.73	12.46	169	58	4.2
MW-334M2	4/6/2007	5.93	9.25	11.85	248.2	73	3.6
MW-334M2	4/21/2008	6.03	9.65	11.85	188.4	98	7
MW-335M1	4/9/2007	6.6	9.58	9.65	110.4	63	17.2
MW-335M1	4/28/2008	6.67	9.47	9.58	81.6	65	25.1
MW-335M1	2/24/2009	6.49	9.08	9.99	78.8	60	14.6
MW-335M1	9/15/2009		10.58				
MW-335M1	9/22/2009	5.8	10.55	9.26	225.8	63	48.5
MW-335M2	4/10/2007	6.63	9.19	10.72	157.6	65	16.4
MW-335M2	4/28/2008	6.64	9.55	10.41	-14.7	74	10.5
MW-335M2	2/24/2009	6.61	9.27	10.22	83.5	71	8.6
MW-335M2	9/15/2009	6.32	10.71	9.88	74.3	67	3.1
MW-339M1	4/11/2007	6.4	9.11	11.4	205.7	62	5
MW-339M1	5/1/2008	6.47	9.71	11.64	134.2	64	5.7
MW-339M1	2/19/2009	6.33	9.25	11.46	168.6	58	7.6
MW-339M1	9/11/2009	6.1	10.3	11.17	136.7	62	1.4
MW-339M2	9/11/2009	6.28	10.7	11.44	139.7	62	1.3
MW-342M1	10/11/2006	6.36	11.7	10.73	212.2	38	60.7
MW-342M1	4/11/2007	5.96	9.33	10.13	201.9	53	8.9
MW-342M1	5/6/2008	6.42	10.85	9.15	90.4	63	10.3
MW-342M1	9/14/2009	5.94	11.87	8.46	169	28	23.4
MW-351M1	10/4/2006	6.65	12.1	12.26	126.8	45	1.84
MW-351M1	4/9/2007	6.83	9.99	10.71	172.4	67	5
MW-351M1	9/24/2007	7.09	10.67	15.51	126.1	60	12.3
MW-351M1	4/11/2008	6.92	9.85	11.43	72.7	66	10.8
MW-351M1	11/3/2008	6.99	10.21	10.01	153.4	61	54.4
MW-351M1	2/20/2009	6.65	9.5	10.48	91.1	63	9.8
MW-351M1	9/2/2009	6.6	11.28	10.34	143.1	58	3.2
MW-351M2	10/4/2006	6.13	12.18	11.99	159.1	43	0.81
MW-351M2	4/9/2007	6.3	9.94	10.84	219.4	63	2.4

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**J-2 Range Eastern Water Quality Parameters**

Location	Sample Date	pH (SU)	Temperature (° C)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-351M2	9/24/2007	6.66	10.88	15.02	163.2	57	8.6
MW-351M2	4/11/2008	6.25	9.84	11.81	98.2	63	6
MW-351M2	11/3/2008	6.38	10.3	10.01	186.2	57	10.1
MW-351M2	2/20/2009	6.13	9.22	10.64	130.9	55	7.3
MW-351M2	9/2/2009	6.78	11.27	0.41	149.6	50	1.3
MW-354M1	10/5/2006	6.72	11.14	10.76	145	49	2.04
MW-354M1	4/6/2007	6.75	9.72	10.52	173.5	76	163.1
MW-354M1	9/19/2007	6.79	10.64	9.9	148.9	71	24.9
MW-354M1	4/9/2008	6.35	9.59	10.4	157.6	63	13.7
MW-354M1	2/23/2009	6.6	9.61	10.01	125.5	65	20
MW-354M1	9/3/2009	6.04	11.1	8.53	170.2	39	4.7
MW-354M2	10/5/2006	6.4	11.2	13.12	161.6	38	2.62
MW-354M2	4/6/2007	6.47	9.76	13.1	191.6	62	5.3
MW-354M2	9/19/2007	6.59	10.76	11.6	167.1	56	9.8
MW-354M2	4/9/2008	6.55	9.75	12.61	158.8	50	7.7
MW-354M2	2/23/2009	6.47	9.51	11.95	140.7	58	6.9
MW-354M2	9/3/2009	6.18	10.87	13.77	172.2	62	3.8
MW-355M1	9/14/2009	6.12	10.45	10.32	130.5	132	5.6
MW-357M1	4/9/2007	7.04	8.68	11.38	182.2	87	5.6
MW-357M1	4/25/2007	6.43	9.19	12.25	171.4	80	5
MW-357M1	4/29/2008	6.78	9.34	10.76	85.7	86	7
MW-357M2	4/9/2007	6.3	8.7	11.67	207.2	63	5.7
MW-357M2	4/29/2008	6.12	9.43	11.74	109.7	67	7.3
MW-365M2	4/10/2007	6.23	8.9	10.63	218.3	89	4.7
MW-365M2	9/21/2007	6.38	11.85	10.42	224.5	83	8.9
MW-365M2	4/10/2008	6.04	9.99	10.57	194.8	70	7.3
MW-365M2	9/3/2009	6.08	10.7	12.12	190	88	1.8
MW-366M1	9/26/2006	6.73	11.56	12.76	132.1	45	6.5
MW-366M1	4/12/2007	6.84	8.91	10.72	173	57	49.9
MW-366M1	10/2/2007	5.8	10.51	12.74	246.3	58	10.98
MW-366M1	9/29/2008	5.77	10.65	11.12	168.7	69	3.9
MW-366M1	8/19/2009	6.53	10.88	9.02	142	57	0.7
MW-366M2	9/26/2006	6.03	11.04	11.87	171.9	42	0
MW-366M2	4/12/2007	6.29	8.88	14.28	207	61	5.5
MW-366M2	10/2/2007	5.21	11.18	12.15	292.4	57	1.34
MW-366M2	9/29/2008	5.22	10.7	11.78	199.7	65	0.4
MW-366M2	8/19/2009	5.89	10.47	10.22	169.2	52	0
MW-366M3	9/26/2006	6.08	11.27	11.98	178	38	0
MW-366M3	4/12/2007	6.26	8.87	14.29	194.6	57	5
MW-366M3	10/2/2007	5.49	10.99	11.67	264.2	54	0.84
MW-366M3	9/29/2008	5.22	10.54	11.74	204.7	65	0.6
MW-366M3	8/19/2009	5.89	10.54	11.1	189.3	54	0
MW-367M1	10/9/2006	6.04	12.46	7.24	227.2	170	0
MW-367M1	4/11/2007	5.96	9.87	9.58	223.9	210	4.2

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**J-2 Range Eastern Water Quality Parameters**

Location	Sample Date	pH (SU)	Temperature (° C)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-367M1	9/28/2007	6.05	12.09	8.84	191	192	8.3
MW-367M2	10/9/2006	5.35	12.02	9.48	297.3	95	0
MW-367M2	4/11/2007	5.69	9.99	10.83	246.6	137	4
MW-367M2	9/28/2007	5.84	12.07	9.83	219	109	8.3
MW-368M1	4/12/2007	7.08	9.13	8.76	135.7	68	9.1
MW-368M1	4/14/2008	6.04	9.46	8.64	184.1	61	9.3
MW-368M1	9/22/2009	5.86	10.23	9.42	196.7	67	28.8
MW-368M2	10/10/2006	6.95	12.11	8.6	152.1	59	13.1
MW-368M2	4/12/2007	7.03	9.1	10.11	143.9	86	19.6
MW-368M2	9/26/2007	6.92	10.79	9.51	219.6	89	18.9
MW-368M2	4/14/2008	6.34	9.43	9.42	174.8	83	11.5
MW-368M2	11/4/2008	6.65	10.04	9.38	180.1	84	16.1
MW-368M2	2/23/2009	7.01	9.32	10	143.8	87	13.1
MW-368M2	9/22/2009	6	10.74	9.49	202.8	87	36.2
MW-368M3	9/15/2009	5.85	10.27	11.18	149.1	54	1.8
MW-372M1	4/9/2007	6.45	9.49	11.75	215.8	66	1.7
MW-372M1	9/19/2007	6.81	10.23	11.8	159.1	66	7.2
MW-372M1	4/9/2008	6.37	9.66	12.25	166.4	59	6.5
MW-372M1	9/2/2009	6.52	11.21	11.03	135.5	55	4.1
MW-381M1	3/22/2007	6.56	8.77	11	214.7	53	1.4
MW-381M1	4/10/2007	6.72	9.29	12.46	189.3	52	4.2
MW-381M1	4/12/2007	6.55	9.16	14.46	186.7	58	4.7
MW-381M1	9/25/2007	6.53	11.32	11.35	159.7	60	8.7
MW-381M1	10/5/2007	5.75	13.1	11.82	329.9	55	3.08
MW-381M1	3/6/2008	6	10	12	212	56	4
MW-381M1	9/11/2008	5.43	11.19	11.24	230.6	93	0.7
MW-381M1	2/11/2009	6.27	9.66	10.67	183	58	4.9
MW-381M1	8/18/2009	6.21	11.52	9.44	167.6	58	0
MW-381M2	10/3/2006	6.36	12.31	11.7	158.8	42	1.97
MW-381M2	3/22/2007	6.24	9.14	11	225.1	59	0.86
MW-381M2	4/10/2007	6.4	9.34	12.23	209.8	57	3.6
MW-381M2	9/25/2007	6.16	11.39	11.26	185.9	63	7.9
MW-381M2	3/6/2008	6.11	9.84	10.79	220.1	56	4.4
MW-381M2	9/11/2008	5.15	11.53	10.68	245.3	89	0.4
MW-381M2	2/11/2009	5.82	9.91	10.45	234.7	58	5.7
MW-381M2	8/18/2009	5.79	11.21	9.64	191.3	52	0
MW-388M1	4/12/2007	6.7	8.69	11.84	238	60	2.1
MW-388M1	5/1/2008	6.36	9.38	12.55	139.1	62	5.8
MW-388M1	9/17/2009	6.24	10.33	11.74	138.3	55	2
MW-388M2	4/12/2007	6.21	8.84	11.38	264.1	71	1.8
MW-388M2	5/1/2008	6.05	9.52	12.38	156.2	64	5.6
MW-388M2	9/17/2009	5.95	10.4	11.66	157.9	52	1
MW-393D	4/9/2007	6.75	8.94	4.43	5.6	92	132
MW-393D	4/10/2008	6.35	9.37	3.96	110.3	86	7.1

**Table E-2**  
**J-2 Range Eastern Water Quality Parameters**

Location	Sample Date	pH (SU)	Temperature (° C)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-393M1	10/10/2006	6.89	11.06	14.17	129.4	51	0.31
MW-393M1	4/9/2007	6.75	8.86	9.55	207.9	75	2.4
MW-393M1	9/21/2007	6.99	10.72	9.86	172.2	76	7.8
MW-393M1	4/10/2008	6.61	9.4	10.27	131.2	69	6.7
MW-393M1	9/3/2009	6.82	10.14	12.72	131.3	65	4.3
MW-393M2	10/10/2006	6.41	11.41	21.75	168.6	46	0.33
MW-393M2	4/9/2007	6.65	8.87	13.05	241	67	5.8
MW-393M2	9/21/2007	6.47	9.97	12.57	198.2	68	23.2
MW-393M2	4/10/2008	6.3	9.31	11.26	178.1	59	7.1
MW-393M2	9/3/2009	5.97	10.29	13.79	154.9	63	3.1
MW-399M1	10/11/2006	6.18	10.37	11.4	192	49	0.06
MW-399M1	4/10/2007	6.2	9.07	10.93	222.4	82	2.5
MW-399M1	9/24/2007	6.39	10.5	16.11	183.3	74	8.4
MW-399M1	4/10/2008	5.92	9.92	11.23	203.2	70	6.2
MW-399M1	9/2/2009	6.08	11.16	10.48	135	72	3.9
MW-436M1	8/15/2006	7.24	10.96	2.24	55	97	10.1
MW-436M1	12/13/2006	6.28	9.6	2.6	188.2	124	6.4
MW-436M1	2/19/2009	7.12	9.12	4.33	103.5	90	5.3
MW-436M1	9/2/2009	6.88	11.05	3.86	133.2	86	2.2
MW-436M2	8/15/2006	7.51	10.33	9.15	102.8	74	42.6
MW-436M2	12/13/2006	6.78	9.55	9.99	210.2	95	27.6
MW-436M2	4/13/2007	7.61	9.09	0.23	156.5	65	15.8
MW-436M2	9/25/2007	7.03	10.99	10.53	196.2	77	10.8
MW-436M2	4/14/2008	6.34	9.29	0.26	166.1	69	10.7
MW-436M2	11/4/2008	6.98	9.98	0.62	184.6	72	23.3
MW-436M2	2/19/2009	7.59	9.15	0.2	107.2	66	9.4
MW-436M2	9/2/2009	7.21	10.42	0.63	131.5	55	72.5
MW-57D	10/10/2006	6.11	10.74	10.6	216.9	88	2.74
MW-57D	4/17/2007	6.33	8.95	10.57	208.8	149	3.5
MW-57D	9/28/2007	6.1	10.98	10.5	210.6	149	8
MW-57D	4/28/2008	6.23	9.85	10.67	118.4	145	7.5
MW-57D	11/4/2008	6.1	10.37	11.03	230	148	6.3
MW-57D	2/19/2009	6.2	9.5	0.25	176.8	141	8.3
MW-57D	9/4/2009	5.95	11.21	10.69	167	139	3.4

Notes:

°C = degrees Celsius

mg/L = milligrams per liter

mV = millivolts

NTU = nephelometric turbidity units

pH = negative log hydrogen ion concentration

SU = standard unit

µS/cm = microsiemens per centimeter